

The South China Iron Works, Ltd.

ENGINE TESTING DATA

NO. 58092

Engine No. D58925846

Date: 22nd Sept. 1958.

ENGINE: SOUTHIRON DIESEL type POWER PD-126
2-cylinder, 4-stroke, 105 mm bore, 120 mm stroke,
Displacement 2.078 liters; Compression ratio: 17 to 1

ACCESSORIES: Radiator SOUTHIRON
& Fan SERCK Pump centrifugal Dynamometer A.V.DENB1521 Cooler SERCK
Manifold Air-cooled Crankshaft No. 253332

LABORATORY: Pump & dynamo were not included during testing.
Assembling Shop. Observed by T.S.Fong
Dynamometer No. II. Dynamometer constant: 4000
Fuel Shell Desoline Sp Gr. 0.834 at 20 deg. C.
Lub Oil Shell Talpa SAE No. 30 SSU Visc 540-600 at 100° F.
Room Temp 80°F Humidity 75% Barometer 29.65 in.Hg.

TIME	RPM	LOAD LBS	BHP	AVER B.H.P.	LUB OIL		COOLING WATER TEMP °C				Remarks
					Press Kg/cm ²	Temp °C	Pump in	Manif out	Cyl in	Cyl out	
8:30	1500	60.0	22.50		7.0	65	23			68	
9:00	1500	60.0	22.50		7.0	65	23			68	
9:30	1500	60.5	22.69		7.0	66	23			69	
10:00	1500	60.5	22.69		7.0	66	24			69	
10:30	1500	60.0	22.50		7.0	67	24			70	
11:00	1500	59.5	22.31		7.0	67	24			70	
11:30	1500	60.0	22.50		7.0	67	24			70	
12:00	1500	60.5	22.69		7.0	67	24			70	
12:30	1500	60.0	22.50	22.54	7.0	67	24			70	
Fuel refilled to original level							41.75	lbs.			

Fuel consumption (full-load condition) $\frac{41.75}{4 \times 22.54} = 0.463 \text{ lbs./h.p.-hr.}$

13:00	1600	62.0	24.80		7.0	67	24			70	
13:30	1600	61.5	24.60		7.0	67	24			70	
14:00	1600	62.0	24.80	24.73	7.0	67	24			70	
Fuel refilled to original level							11.50	lbs.			

Fuel consumption (10% over-load condition) $\frac{11.50}{24.73} = 0.465 \text{ lbs./h.p.-hr.}$

560224



2021
Register
INSPECTION DEPARTMENT
Engineer-In-Charge.

012948-012453-0108